

The History of the Modern Skeleton Collection
as known to Hildegarde Howard

Early History

Originally Mr. Wyman catalogued skeletons along with the skins -- the mammals, birds and reptiles separate from each other -- in a card index (this I call catalogue 1 to distinguish it from those to follow, but it is also referred to as "Old Catalogue".. It is still continued for skins, and is located in the ornithology room with the exception of the section for reptiles which is in Mr. Hill's room). Later, Mr. Wyman found it advisable to start new catalogues for the skeletons. He recatalogued all mammal skeletons and bird skeletons separately beginning at 1 for each. These two lists were entered numerically in a black note book (which I call catalogue 2). A few reptiles were entered with the mammals, but the majority of reptiles were not entered until 1930 when Miss Bowen entered the work.

1924 - 1929

My first contact with the modern skeletons was in the summer of 1924. At this time the skeletons were all in the old north basement with the La Brea bones. The birds were arranged alphabetically and were in fairly good shape. Miss Husband had been working with fossil birds and had been helping Mr. Wyman with the cataloguing (judging from the style of printing in cat. 2 it may have been she who first entered the birds in this note book; she also started a 3 x 5 card index of birds, alphabetically arranged, for her use in the bone room -- later discontinued).

When I came -- in 1924 -- I did some of the cataloguing in cat. 2 as the bird skeletons came in and continued the 3 x 5 card index as well. From 1925 to 1928 I was not here, and I think Mr. Wyman carried on the cataloguing. After Mr. Wyman died no entries were made in the note book until I returned in July, 1928. As no one seemed to have any interest in the bird skeletons, I took charge of them and went on with the cataloguing and boxing of the specimens as Mr. Fischer brought them in. Only such data as Mr. Fischer gave me with the bones were entered in the catalogue. I continued the 3 x 5 card index also, up to no. 382 -- this was in 1929. The card index was then discontinued due to the new arrangement about to be described; since this card index was merely a copy from the main catalogue originated merely for the purpose of having an alphabetical list at hand, the new system begun in 1929 did away with the necessity of continuing it and it was discarded -- the backs of the cards being used for scratch cards.

1929 - 1932

Early in 1929 the entire modern skeleton collection was moved from the basement to room 28 on the third floor, and placed under Dr. Comstock's supervision. Dr. Comstock asked me to take charge of the birds. Later he asked Henry to go over the mammals to straighten them (they had been given no care while in the basement and were badly mixed up). Before Henry could more than start, he was called to work at La Brea. The mammals were left until 1930.

As for the birds: Boxes were ordered and all skeletons were taken from the old shoe and cigar boxes and put in the new boxes with labels made especially for them. Dr. Constock had 4 x 6 cards mimeographed and the entire bird catalogue was copied from the old note book to the cards -- one set for reference -- arranged alphabetically, another (department) set arranged by number. The numbers remained the same as before except that at Dr. Constock's suggestion the letters Bi were placed before all bird numbers, reserving M for mammals, R for reptiles, Am for amphibians and F for fishes. Even after the cards were made the note book was retained as a convenient place to first record the specimen pending the opportunity to have cards typewritten. During the preparation of these cards the "old catalogue" (number 1) was frequently referred to for data missing in the note book.

In 1930 Miss Bowen put all the mammals in new boxes with new labels and checked up on old data. She did not attempt to make a thorough reidentification of all confused specimens, however, as a mammalian osteologist is needed for that. The mammal collection, therefore, is still in need of rearrangement.

Miss Bowen also began catalogues for Reptiles and Amphibians, listing them in the back of the note book. ^(cat. 2) Reference and department catalogues were made for mammals, reptiles and amphibians on the 4 x 6 cards. She put the reptiles and amphibians in boxes also.

Miss Bowen and I also went over the skeletons on exhibit, many of which had never been catalogued before, so far as we could see.

The last catalogue to be made was that for the fishes. These were entered in the note book (cat. 2) and 4 x 6 cards were made.

The final big undertaking was the checking of all skeletal specimens with Mrs. Whittier's accession records, attempting at the same time to correlate skeletons with skins which are now in the mammal department or have been mounted by the taxidermy shop. Mrs. Whittier and I have gone over all of our records together and with the exception of some "loose ends" which it may never be possible to clear up, the skeletal collections are in order.

Henceforth the catalogues to be consulted are the 4 x 6 cards which contain all available data, gathered from various sources. Three record book catalogues will be maintained for convenience in recording specimens before the cards are typed (these I call numbers 3, A, B and C), one book for mammals, one for birds, and one for reptiles, amphibians and fishes. The ~~back~~ ^(cat. 2) note book will be filed away in room 40. Cat. 3A -- mammals, beginning with no. M1000. Cat. 3B -- birds, beginning with no. B1601. Cat. 3C -- reptiles, amphibians, fishes, beginning with nos. R1, Aml and Fl respectively. There were so few ~~of~~ specimens of these forms so far recorded in catalogue 2 that they were all transferred to catalogue 3.

In addition to the reference and department catalogues there is an index of specimens contained in each of the exhibit cases, a taxonomic index of birds and an index of donors. These indices and books 3A, B and C are in room 40, the 4 x 6 card catalogues with the skeletons in room 28.

See
1937 report
for change
in location
to room 36

Moved to room 36
(see 1933-34)

At present a collection of mammal skulls (North American) without skins is in a case in room 34, but it will be incorporated in the main collection eventually. All small mammal skulls with skins are, and will continue to be kept in room 34 and are catalogued in cat. 1; they are not a part of the collection under discussion.

Hildegarde Howard, March 23, 1932.

Persons who have handled skeletons for us (other than those listed before)
Barbara Leas, 1932 -- helped Cantwell with cleaning and me with numbering
Irving Brown, 1933 -- identifying La Brea bones, labelled some modern
Sue Keithly Ferguson 1930 -- typed first 4 x 6 card catalogue, labelled
some of the boxes.

George Cantwell 1932 -- cleaning skeletons

Mrs. Waterfield 1935 -- typing 4 x 6 card catalogue

U.S National Museum -- identified some Pt. Mugu shellmound bones which
have been incorporated in the skeleton collection for reference.
(Gerritt S. Miller Jr.)

Hi I. Follett -- identified fish bones from same site, turned over to Hill.

1932 - 1934

Beginning in 1932, Mr. Cantwell has done a great deal of the cleaning of disarticulated skeletons that come to our departments. Mr. Fischer continued with the mounted specimens and those specimens received through his department.

After Miss Bowen left, I took care of cataloguing all skeletons, but it was arranged to have Miss Barnhill or Miss Barbour help with the numbering. Miss Barnhill did all of the mammals until she left in January 1934 and Mr. Irving Brown has continued with them. Miss Barbour did a few of the birds.

On March 27, 1933, the skeletons were all moved from room 28 to room 36. Later in 1933 the collection of mammal skulls without skins from room 34 were incorporated in the collection in room 36.

In October 1933, the skeletons on exhibition were rearranged, under my direction. The elephant was moved to the rear of the room and smaller forms moved out where they could be seen to better advantage.

During 1932 and 1933 a good many bones from various Indian sites came to this department for identification and many were found to be of value for reference and were added to the skeleton collection. The first large collection of material was from Pt. Mugu and all of the bird bones and many of the mammal bones (Fur Seal, Sea Lion, Sea Otter, Whale) which are of value for future comparisons -- were catalogued in the modern skeleton catalogue and put on the shelves. As more material came in, however, it became evident that it could not all be included in the modern catalogue, so it has been listed merely under the accession number and put away in boxes tagged with identifying remarks. At present all of this material, including the Pt. Mugu birds (which, however, still bear catalogue numbers) is in the first tier of boxes in Rack I. (1934)

Hildegarde Howard, 1934

*Fish moved to Rack
on north wall
1946*

Modern skeleton collection

1934 - 1937

Since 1934, the following changes have been made in the skeleton collection.

1934. In this year -- due to inability to get help for cataloguing, the very small passerine bones were put in vials, catalogued, but with bones unnumbered. They remain in this condition.

Dec. 1935-Feb. 1936. Mounted dog skeletons (domestic) were exhibited on a long table in the skeleton hall for the Anniversary celebration.

February 1936 -- Dog skeletons were wrapped in paper (Mr. Griffie and I did the wrapping) and stored again in room 36. The Galapagos Tortoise, which had long been exhibited in the Marine room was placed in the space left by the dogs in the Skeleton Hall.

May - Sept. 1936. In the skeleton hall -- I revised most of the labels, to emphasize the taxonomic position of the species, posting explanatory labels in each "A" Case. Also changed the position of the skeletons in the center so as to bring together related forms.

General 1936 -- During this year Miss Louise Ballard assisted in numbering skeletons and Mrs. Waterfield assisted in typing cards for the catalogues, to get them up to date. In October 1936 room 36 was fumigated.

March 1937 -- All the old shelves and racks were removed from room 36 and replaced by new gray cases with doors, made by Mr. Nemetz @- each case holding eleven wood boxes in a tier (2 tiers to a case) thus accommodate ing 396 boxes now in which the pasteboard boxes are arranged. The reptiles and amphibians occupy tier 1 of Case 1, the birds tier 2 of case 1 and cases 2 to 5 inclusive. The mammals occupy cases 6 - 17. Case 18 is for miscellaneous material and the last tier contains the shellmound material (which was in Rack I in the old arrangement)

General 1937 -- Labels giving the contents of each Case have been put up. I am gradually going over the collection, getting it into good shape. This necessitates arranging boxes to put families together, adding labels to tops of boxes as the tops are most conspicuous in drawers. Irving Brown came in during a vacation and helped with the birds somewhat. I will finish the bird collection before starting to straighten the mammal. Mr. Fischer is gradually getting the greasy skeletons degreased. Many of the large mammals are still incorrectly identified, I am sure -- and I hope they will be gone over thoroughly by a mammalian osteologist before too long.

A new metal case for filing cards has been put in room 36 and all cards pertaining to the modern skeletons are now filed therein. The old black notebook (Cat. 2) remains in the case in room 40. The other notebooks (Cats. 3 A, B, and C) are in use in either room 40 or room 36. The original card catalogue (Old Cat. or Cat. 1) is, of course still part of the regular ornithology and mammalogy catalogues in the ornithology room -- the reptilian part in Mr. Hill's room.

Hildegard Howard January, 1938.

Notice of new exhibition material in Modern Skeleton Room

Mounted skeleton of	Italian (Domestic)	Goat
"	"	" Fat-rumped Sheep (Domestic)
"	"	" Cassowary
"	"	" Rhea

October 8, 1937.

Simpson property transferred from
storage room no. 194, 3rd floor to taxidermy storage space behind the
water hole group -- south side, first floor -- by Oliver Smith 1/26/38

Bear skulls -- 8

Two male Kodiaks

One female Kodiak

Two "Alaska" (on worn label)

Two grizzly cubs

One Black Bear

One fragment of bone tied with string and Simpson tag

One small newspaper package, containing?

One Elk skull with 1 complete, 1 incomplete horn

One pair deer horns on a board

One pair deer horns (separate)

Five hollow (cattle) horns

now cleaned & in cases
in room 36 (7/28/44)

This department has
relinquished any
claim or interest
in these specimens
7/28/44

The above is a complete list of all Simpson skeletal material which could
be found in store room 194, except Hippo skull which is now Mus. property/
(this is left in 194)

Rowley property transferred
from storage room no. 194 on 3rd floor to taxidermy storage space behind
the water hole group -- southside, first floor -- by Oliver Smith 1/26/38

One skull and horns of Mountain Sheep

One pair of Elk antlers (separate)

The above is a complete list of all Rowley skeletal material which could
be found in store room 194.

all skeletal
material removed from
taxi-storage space behind
water hole group prior to 7/28/44

Horns and tusks still in storage room 194

A1757 hollow horns, some mounted on wood, others made into powder horns

A1872 Buffalo horns and carved wooden mount

L 66 Pair of heavy tusks

I don't know what department these specimens come under.

still there
7/28/44

A2377 Hippo skull and jaws Osteology department no. M1123

Alfred George Howard - January 26, 1938

Record of discards

M 524 Camelus sp. from Al G. Barnes Circus, Oct. 2, 1915
foot bones (1 front, 1 hind) discarded 12/26/39

L116 fragment of horse tooth -- discarded 12/26/39

L116 fragment of whale? tooth from Habana Cuba, 1898 --
given to Carl Suchomel for use in
model work Dec., 1939

L116 two boar tusks in fragmentary condition -- given to Carl
Suchomel for use in model work, Dec., 1939

M925-926 and M938-939 miscellaneous phalanges of Reedbuck from
Simson (no other parts of skeleton available, phalanges
useless alone) -- discarded September, 25, 1940

Bones from Indian Mound near Santa Barbara, Oct. 25, 1938 from Mr. Reis.
Not catalogued -- useless and discarded Sept. 25, 1940

L116 skulls without jaws of Cormorant (Bi552), dog and cat, fragmentary
and useless -- discarded Sept. 25, 1940.

M798 Bos sp. -- nine bones of wrist and ankle regions -- no value
without rest of skeleton -- discarded 12/26/40

M946 and 994 young female Uganda Kobs from Simson (no skulls)
incomplete skeletons from mounts (taxidermy), too young
and incomplete for use -- discarded Sept. 26, 1940

rec'd June 1940 Spaniel or Setter - skull kept only - skeleton discarded June 1941
4/7/38 Camel skeleton from Luna Park Zoo discarded, skull kept June 1941
Poodle Poodle? skeleton turned over to Education Div. Never catalogued here.
Discarded October 14, 1941

M 795 - Equus sp. - 7th cervical (no Ac. number)
M 796 " " - atlas (" " ")
M 884 " " - tooth

Discarded Oct. 3, 1941

M 838 Young guinea pig flat mount (which had gone to
pieces & was too young to restore). USC student
work A1765.

Discarded 2/9/42

Bi551 (A1757 #209) Goose scapula - no ident. or data

Discarded 2/18/42 - M818 Two unidentified bones (see manual?) no ac. no.

Discard 3/26/42 M888, A2096 - Male manes

Discarded 8/7/44 R54 unidentified Turtle pelvis & vertebrae from Brandler

1940 -- 1942

Daniel Lasky of N.Y.A. numbered skeletons and put them away while here for a few months.

Jane Everest did a great deal of the numbering and cataloguing during this time, also and from Dec. 1941 through March 1942 checked the collection and catalogues and labelling bringing everything up to date.

In 1940 all mounted dog skeletons were exhibited in the special exhibit and some new ones were added. When this exhibition ended all of these skeletons were brought up to room 36 and wrapped in paper and stored on top of cases in this room and in room 40, along with charts tracing the evolution of the domestic breeds.

March 26-27, 1942

Began moving modern skeletons from basement exhibition hall to M F 8 (old History wing). Skulls and flat mounts have been disposed of as follows:

BIRDS

<i>Aquila chrysaetos</i>	Bi241	Removed from mount, boxed in case 4
<i>Ardea occidentalis</i>	Bi 6	" " " " " " 2
<i>Buceros</i> , sp.	Bi 15	" " " " " " 5
<i>Fregata aquila</i>	Bi 243	" " " " " " 2
<i>Geococcyx calif.</i>	Bi 282	Left on mount and put in "Misc" box in Case 4
<i>Guara alba</i>	Bi 222	Removed from mount, boxed in case 2
<i>Mycteria americana</i>	Bi234	" " " " " " 2
<i>Pelecanus californi.</i>	Bi 58	" " " put loose in " 2
<i>Phasianus reevsi</i>	Bi 41	" " " boxed in Case 4
<i>Phoenicopterus ruber</i>	Bi 235	" " " " " " 3
<i>Puffinus griseus</i>	Bi 60	Left on mount and loaned to Cal Tech
<i>Psittacus erithacus</i>	Bi 301	" " " and put in "Misc" box in case 4
<i>Sula brewsteri</i>	Bi 250	Removed from mount, boxed in case 2

MAMMALS -- Flat mounts:

<i>Anthropopithecus</i>	M 499	Removed from mount, put loose in case 10
<i>Lynx rufus</i>	M578	" " " , boxed in case 8
<i>Mephitis nigra</i>	M 596	" " " " " " 7
<i>Rattus norvegicus</i>	M 723	Left mounted and put in case 11
<i>Sarcophilus ursinus</i>	M 632	Removed from mount, boxed in case 6
<i>Sylvilagus</i>	M 639	Left mounted and stored in room 36
<i>Thomomys bottae</i>	M851	" " " put in case 11
<i>Trichosurus</i>	M265	" " " stored in room 36
<i>Lepus calif.</i>	M 575	" " " loaned to Cal Tech
<i>Macacus</i>	M 661	" " " " " " "
<i>Macacus rhesus</i>	M 579	" " " " " " "
<i>Macropus rufus</i>	M 587	" " " " " " "
<i>Myocastor coypu</i>	M 602	" " " " " " "
<i>Procyon</i>	M 627	" " " " " " "
<i>Taxidea taxus</i>	M 445	" " " " " " "

MAMMALS -- Skulls

<i>Anthropopithecus</i> , M472	to case 10	<i>Herpestes</i> M219	to case 7
<i>Antrozous</i> M358	" " 6	<i>Hydrochoerus</i> M161	" " 11
<i>Aplodontia</i> M 94	" " 11	<i>Lepus alleni</i> M470	" " 11
<i>Canis famil. Colliem</i> M180	" " 7	<i>Lutra canad.</i> M190	" " 7
<i>Canis occident.</i> M133	" " 7	<i>Lynx fasciat.</i> M165	" " 8
<i>Canis ochropus</i> M137	" " 7	<i>Macacus rhes.</i> M459	" " 10
<i>Castor canad.</i> M152	" " 11	<i>Macrotus</i> M384	" " 6
<i>Choloepus hoff.</i> M443	" " 17	<i>Marmota</i> M899	" " 11
<i>Citellus beecheyi</i> M 12	" " 11	<i>Mellivora</i> M187	" " 7
<i>Dasyprocta agouti</i> M159	" " 11	<i>Mephitis</i> M218	" " 7
<i>Didelphis</i> M220	" " 6	<i>Mustela</i> M668 & M200	" " 7
<i>Dipodomys</i> M109	" " 11	<i>Neotoma</i> M243	" " 11
<i>Erethizon</i> M157	" " 11	<i>Ochotona</i> M 71	" " 11
<i>Eumetopias</i> M418	" " 9	<i>Odocoileus</i> M614	" " 13
<i>Eumops calif.</i> M375	" " 6	<i>Ondatra</i> M 52	" " 11
<i>Eutamias</i> M 38	" " 11	<i>Petrogale</i> M222	" " 6
<i>Felis domesticus</i> M172	" " 8	<i>Phascolarctos</i> M496	" " 6
<i>Felis oregonensis</i> M162	" " 8	<i>Phoca</i> M422	" " 9
<i>Felis pardus</i> M558	" " 8	<i>Procyon</i> M148	" " 7
<i>Hapale</i> M896	" " 10	<i>Scapanus</i> M335	" " 6

March 25-27, 1942 disposition of Mammal skulls from exhibit - cont'd:

Sorex ornatus	M344	to case 6
Spilogale phenax	M214	" " 7
Sus, sp.	M773	" " 10
Sylvilagus	M 60	" " 11
Thomomys	M854	" " 11
Urocyon calif.	M141	" " 7
Ursus amer.	M1104	" " 6
Vulpes	M147	" " 7

12 skulls of man (of original 15 checked to History Dept.) given back to History Dept. Other 3 of the 15 taken out by Mr. Woodward some time previous. So all 15 are in the History Dept. now.

(#s 33-37 plus two unnumbered)

7 Human skulls	probably all from L 61 (Cherry)	given to History Dept.
3 Chimp "	of L 61 (#s 25, 26, 27)	" " " "
3 Gorilla "	" " (#s 28, 29, 30)	" " " "
2 Monkey "	" " (#s 31, 32)	" " " "

Mounted skeletons not used in new exhibition disposed of as follows:

Stored in S.B.5 Camel M522, Moose M921, Bison M509, Mule Deer M922, Nylgaus M502 and M625, Elks M531 and M533, Reindeer M1005, Roan Antelope M547, Nubian Goat M1103, Giraffe M518, Tigers M560 and M982, Polar Bear M641, St. Bernard Dog M1174, Sea Lion M550, River Dolphin M1136, Striped Porpoise M1194, Elephant Seal M552, Chimpanzee M855 (M1135 added to storage later), Kangaroo M586, Pronghorn Antelope M802, Rhesus Monkey M799, Porcupine M722, Spotted Skunk M637, Bat (Eumops) M552, (Brown) M714, Paca M720, African Lion cub M563, Red Squirrel M711, Pythons R27, R46, Louvar Fl8, Black Sea Bass, Fl5, Opah Fl7, Tropic Bird Bi318, Boat-billed Heron Bi238, Peacock Bil23, Jaeger Bi401, Cormorant Bil34, Short-keeled Toucan Bil443, Sooty Shearwater (2) Bil26, Fulmar Bil095, Parrot Bi963, Ring-necked Pheasant Bi328, European Stork Bil321, Blue-faced White Heron Bil583, Chicken Bil29, Western Gull Bil17, Western Grebe Bil31, Bittern Bil161, Hudsonian Curlew Bil33.

Stored in Room 36:

Turnstone Bi470, Godwit Bil18, Phalarope Bi353, Sabine Gull Bi968, Tern Bi966, Pigeon Bil40, Parakeet Bil25, Woodpecker Bi447, Towhee Bi964, Scoter Bil22, Neophron Bi239, Burrowing Owl Bil35, Gophers M644-646, Dipodomys M704, 705, 707, Jerboa M616, Peromyscus M708, House Mouse M726, Croaker F2, Striped Bass, F4, Bonito F6, Bufo Am2, Salamander Am3, Marine Iguana R2, Horned Toad R4, Lizard R5, Rattle Snake R7, Turtles (2) R9 and R49, Lynx rufus M577

Zebra M548, 2 legs used in horse exhibit, rest of mount lent to Cal Tech (front and hind cannon bones and toes only)

1943

Under Dr. Stock's direction, and with my help, George Kanakoff prepared the mammalian "osteological dictionary". For this $\frac{1}{2}$ a skeleton of each available genus of mammals was taken from the boxes in the regular file of skeletons. The Dictionary is arranged by elements -- all humeri of all genera together, all femora, etc. Skulls are not included. This dictionary occupies a single-doored case immediately facing the door of Room 36, as you enter from the hall. A large chart on the inside of the door of the case indicates the drawers in which the particular skeletal elements of each genus are to be found.

HH

July 1944.

Had the help, during the summer, of two High School students. One, Dolores Lytle, coming every day, the other only on Tuesdays, Leon Borgman. They have cleaned some skeletons and numbered and boxed those which had accumulated since Jane Everest left. Also, during the last school year a boy (Dennie Constantine) helping Mr. Willett in the afternoons has cleaned several skeletons. Another series of skeletons of birds received from the Fish and Wildlife Service, was cleaned by students in the Saturday Junior class in Ornithology-Mammalogy. I have catalogued these and Dolores and Leon have numbered them and put them away.

HH

Mammal Skeletons used for
Osteological Dictionary

Unless otherwise indicated, bones removed from these skeletons are:

1 each of Scapula	Innominate
Humerus	Femur
Ulna	Tibia
Radius	Fibula
Each metacarpal	Each metatarsal

Usually rights were taken if available.

- ✓ M 634 *Scapanus latimanus* (no pelvis)
- ✓ M 1065 *Antrozous pallidus*
- ✓ M 1324 *Eumops p. calif.* (whole pelvis)
- ✓ M 1104 *Ursus americanus*
- ✓ M 526 *Canis latrans ochropus*
- ✓ M 739 *Vulpes macrotis* (whole pelvis)
- ✓ M1195 *Urocyon cin. calif.* " "
- ✓ M 673 *Canis familiaris* " "
- ✓ M 437 *Bassariscus astutus raptor* (no pelvis)
- ✓ M1291 " " (innominate only)
- ✓ M1101 *Procyon lotor*
- ✓ M1169 *Mustela frenata latirostra* (no metapodials or girdles)
- ✓ M1525 " " (metapodials only)
- ✓ M1205 " " (scapula and innominate)
- ✓ M1190 *Mustela arizonensis* (no metapodials)
- ✓ M1243 *Mustela vison* (no metapodials, ulna or radius)
- ✓ M1130 *Taxidea taxus neglecta*
- ✓ M1070 *Enhydra lutris* (no metapodials)
- ✓ M1174 *Felis concolor calif.* (whole pelvis)
- ✓ M1305 *Felix domesticus* (whole pelvis)
- ✓ M1341 *Lynx rufus californicus*
- ✓ M1318 *Zalophus californianus* (no metapodials)
- ✓ M 658 " " (metapodials only)
- ✓ M1114 *Arctocephalus townsendi* (no metapodials)
- ✓ M1332 *Onychomys leucogaster ruidosae* (no metapodials)
- ✓ M1262 *Onychomys torridus tularensis* (no metapodials)
- ✓ M1514 *Reithrodontomys halicoetas* (no metapodials or humerus or scapula)
- ✓ M1515 " " (humerus and scapula)
- ✓ M1276 " *m. megalotis* (no metapodials)

- ✓ M1094 *Peromyscus e. eremicus* (no metapodials)
- ✓ M1272 *Peromyscus m. gambeli* " "
- ✓ M1513 *Peromyscus b. boylii* " "
- ✓ M1524 *Peromyscus truei gilberti* " "
- ✓ M1092 *Peromyscus crinitus stephensi* (no metapodials)
- ✓ M1085 *Neotoma lepida lepida* (no metapodials)
- ✓ M 492 *Neotoma (fuscipes macrotis?)* (no metapodials)
- ✓ M1328 *Microtus calif. scirpensis* " "
- ✓ M1523 *Microtus calif. aestuarinus* " " and no girdles
- ✓ M1355 *Microtus mordax mordax* " "
- ✓ M1140 *Ondatra zibethica osoyoensis* " " or pelvis
- ✓ M 837 *Rattus norvegicus* " "
- ✓ M1516 *Mus musculus* (no pelvis and " ")
- ✓ M1313 " " (innominate only)
- ✓ M1125 *Thomomys bottae bottae* (whole pelvis, but no metapodials)
- ✓ M 642 " " *pallescens* " " " " "
- ✓ M1344 *Geomys brevipes sagittalis* " " " " "
- ✓ M1059 *Perognathus l. pacificus(?)* (no metapodials)
- ✓ M1212 *Perognathus parvus mollipillosus* (no metapodials or humerus)
- ✓ M1187 " " *magruderensis* (humerus only)
- ✓ M1093 *Perognathus penic. angustirostris* (no metapodials)
- ✓ M1294 *Perognathus calif. dispar* " "
- ✓ M 906 *Dipodomys mohavensis* (no metapodials)
- ✓ M1339 *Dipodomys ordii* " "
- ✓ M 944 *Dipodomys merriami* " "
- ✓ M1167 *Dipodomys deserti* " "
- ✓ M1345 *Dipodomys agilis* " "
- ✓ M1217 *Dipodomys spectabilis* metapodials present
- ✓ M1356 *Microdipodops megacephalus dickeyi* (no metapodials)
- ✓ M1351 *Liomys irroratus texensis* (no metapodials)
- ✓ M1188 *Zapus trinotatus* " "
- ✓ M1323 *Erethizon e. epixanthum*
- ✓ M1192 *Aplodontia rufa rufa* (no metapodials)
- ✓ M 1176 *Marmota f. fortirostris* " "
- ✓ M1071 *Citellus beecheyi fischeri* metapodials present
- ✓ M1060 *Citellus mohavensis* (femur, humerus, scapula, ulna, only)
- ✓ M1207 *Citellus t. tereticaudus* (no scapula)
- ✓ M1208 " " " (scapula only)
- ✓ M1199 *Citellus annulatus* (no metapodials)
- ✓ M1331 *Citellus spilosoma annectens* (no scapula)
- ✓ M1380 *Callospermophilus chrysodeirus*
- ✓ M1319 *Ammospermophilus leucurus leucurus*
- ✓ M1181 *Eutamias minimus scutator* (no metapodials)
- ✓ M1210 *Sciurus douglasi albolimbatus* (no metapodials)
- ✓ M1180 *Sciurus griseus anthonyi* " "

- ✓ M1245 *Glaucomys sabrinus calif.* (no metapodials, scapula or fibula)
- ✓ M1250 " " *lascivus* (scapula and fibula only)
- ✓ M1216 *Cynomys ludovicianus* (no metapodials)
- ✓ M1171 *Cynomys gunnisoni zuniensis* (no metapodials)
- ✓ M 659 *Castor* (*canadensis*?)
- ✓ M1185 *Ochotona schisticeps sheltoni* (no metapodials)
- ✓ M1251 *Lepus alleni* (humerus, tibia, fibula, ulna, radius only)
- ✓ M1148 *Lepus calif. deserticola* (no metapodials)
- ✓ M 910 " " " ? (metapodials only)
- ✓ M1163 *Sylvilagus a. sanctidiegi* (no metapodials, but whole pelvis)
- ✓ M1177 *Sylvilagus nuttalli grangeri* (no metapodials)
- ✓ M1126 *Sylvilagus bachmani*
- ✓ M1240 *Cervus nannodes* (no pelvis)
- ✓ M 528 " " (pelvis only)
- ✓ M 604 *Odocoileus virginianus*
- ✓ M1248 *Odocoileus hemionus calif.* (whole pelvis)
- ✓ M 760 *Antilocapra americana* (no metapodials or ulnae)
- ✓ M 500 *Alces gigas*
- ✓ M 641 *Rangifer caribou* (no pelvis)
- ✓ M1255 *Ovis canadensis* (tibia, humerus, radius, pelvis only)
- ✓ M 619 *Ovis dalli dalli* (no pelvis)
- ✓ M 618 *Oreamnos montanus*
- ✓ M 495 *Dasypus novemcinctus* (metapodials incomplete)
- ✓ M1475 *Equus caballus*
- ✓ M 615 *Pecari angulatus* (feet whole, also left spints and digits 2 and 1)
- ✓ M 603 *Nasua narica* (whole pelvis)

Heidegunde Howard
Aug. 27, 1942

Mammals in Osteological Dictionary

- M 437 *Bassariscus astutus raptor*, Matilija, Calif. M
- M 492 *Neotoma (fuscipes macrotis?)*, Escondido, Calif. M
- M 495 *Dasypus novemcinctus*, Tuleta, Texas M juv.
- M 500 *Alces gigas*, near Cordova, Alaska M
- M 526 *Canis latrans ochropus*, Fullerton, Calif. M ad.
- M 528 *Cervus nannodes*, Kern Co., Calif. F
- M 603 *Nasua narica*, Mexico M
- M 604 *Odocoileus virginianus virginianus* (Grif. Pk.) F
- M 615 *Pecari angulatus* Mexico M (castrated)
- M 618 *Oreamnos montanus*, Alaska M
- M 619 *Ovis dalli dalli*, Alaska M
- M 631 *Rangifer caribou*, Alaska F
- M 634 *Scapanus latimanus occultus*, Expo. Pk., L.A. sex?
- M 642 *Thomomys bottae pallescens*, Los Angeles F
- M 658 *Zalophus californianus*, So. Calif. sex?
- M 659 *Castor (canadensis?)* locality? sex?
- M 729 *Vulpes macrotis* locality? M
- M 760 *Antilocapra americana americana*, Siskiyou co., Calif. F yg.
- M 837 *Rattus norvegicus* M
- M 906 *Dipodomys mohavensis*, Palmdale, Calif. M?
- M 910 *Lepus*, near Mesquite, New Mexico sex?
- M 944 *Dipodomys merriami simiolus*, Borrego Valley, Calif. F
- M1059 *Perognathus longimembris pacificus*, Hyperion, LA Co., Calif. F
- M1060 *Citellus mohavensis*, Palmdale, Calif. F
- M1065 *Antrozous pallidus*, El Monte, Calif. sex?
- M1070 *Latax lutris*, Pt. Mugu shellmound sex?
- M1071 *Citellus beecheyi fiscoheri*, Victorville, Calif. M
- M 1085 *Neotoma lepida lepida*, Mohave, Calif. M
- M1092 *Peromyscus crinitus stephensi*, San Diego Co., Calif. M
- M1093 *Perognathus penicillatus angustirostris* S.D.Co.Calif. F

- Ml094 *Peromyscus eremicus eremicus*, San Diego Co., Calif. F
 Ml101 *Procyon lotor*, Grif. Pk. Zoo F
 Ml104 *Ursus americanus*, Big Pines Pk. F
 Ml114 *Arctocephalus townsendi*, Pt. Mugu shellmound sex?
 Ml125 *Thomomys bottae bottae*, Palms, Calif., M ad.
 Ml126 *Sylvilagus bachmani cinerascens*, Griffith Pk. sex?
 Ml130 *Taxidea taxus neglecta*, Mt. Pinos, Calif. M
 Ml140 *Ondatra zibethica osoyoosensis*, Umatilla Co. Ore. M
 Ml148 *Lepus californicus deserticola*, Cajon Pass, Calif. M ad.
 Ml163 *Sylvilagus audubonii sanctidiegi*, Downey, Calif. M ad.
 Ml167 *Dipodomys deserti*, Salton Sea, Calif. M
 Ml169 *Mustela frenata latirostris*, locality? M
 Ml171 *Cynomys gunnisoni zuniensis*, Seligman, Ariz. F
 Ml176 *Marmota flaviventer fortirostris*, White Mts., Calif. M yg.
 Ml177 *Sylvilagus nuttalli grangeri*, White Mts., Calif. sex?
 Ml180 *Sciurus griseus anthonyi*, Mt. Pinos, Calif. M
 Ml181 *Eutamias minimus scutator*, White Mts. M
 Ml185 *Ochotona schisticeps sheltoni*, White Mts. M
 Ml187 *Perognathus parvus magruderensis*, White Mts. F
 Ml188 *Zapus trinotatus*, near Kent, Washington M
 Ml190 *Mustela frenata arizonensis*, White Mts. M
 Ml192 *Aplodontia rufa*, near Kent, Washington F
 Ml195 *Urocyon cinereoargenteus calif.*, Ventura Co., Calif. M
 Ml199 *Citellus annulatus*, Colima Mexico M
 Ml205 *Mustela frenata*, Simi Valley, Ventura Co., Calif. M
 Ml207 *Citellus tereticaudus*, Dos Palms, Calif. M
 Ml208 *Citellus tereticaudus*, " " " F
 Ml210 *Sciurus douglasii albolimbatus*, Modoc Co., Calif. M
 Ml212 *Perognathus parvus mollipilosus*, Modoc Co., Calif. F
 Ml216 *Cynomys ludovicianus*, near Acme, New Mexico F
 Ml217 *Dipodomys spectabilis*, near Tucson, Arizona F
 Ml240 *Cervus nannodes*, Grif. Pk. Zoo. M

- M1243 *Mustela vison*, Petersburg, Alaska F
 M1245 *Glaucomys sabrinus*, calif., San Bernardino Mts., Calif. M
 M1248 *Odocoileus hemionus* calif. Grif. Pk. Zoo F
 M1250 *Glaucomys sabrinus lascivus*, Gen. Grant Nat'l Pk., Calif. M
 M1251 *Lepus alleni*, Sonora Mexico sex?
 M1255 *Ovis canadensis*, Calif. sex?
 M2262 *Onychomys torridus tularensis*, Maricopa, Calif. F
 M1272 *Peromyscus maniculatus gambeli*, Elizabeth Lake, Calif. F
 M1276 *Reithrodontomys megalotis megalotis*, Elizabeth Lake, Calif. M
 M1291 *Bassariscus astutus raptor*, near Fresno, Calif. sex?
 M1294 *Perognathus californicus dispar*, Elizabeth Lake, Calif. F
 M1305 *Felis domesticus*, L.A. M
 M1313 *Mus musculus*, M
 M1318 *Zalophus californianus*, near Malaga Cove, Calif. M
 M1319 ~~*Ammodramus leucurus*~~ *Ammodramus leucurus*, Providence Mts., Calif M
 M1323 *Erethizon epixanthum epixanthum*, Kaneb, Utah sex?
 M1324 *Eumops perotis* calif., Coachella, Calif. F
 M1328 *Microtus californicus scirpensis*, Inyo Co., Calif. M
 M1331 *Citellus spilosoma annectens*, Hueces Co., Texas F
 M1332 *Onychomys leucogaster ruidosae*, near Lordsburg, New Mexico F
 M1339 *Dipodomys ordii*, near Lordsburg, New Mexico M
 M1341 *Lynx rufus* calif., Riverside Co., Calif. M
 M1344 *Geomys brevipes sagittalis*, Texas City, Texas F
 M1345 *Dipodomys agilis*, San Bernardino, Co. Calif. M
 M1351 *Liomys irroratus texensis*, Brownsville, Texas F
 M1355 *Microtus mordax*, White Mts., Calif. M
 M1356 *Microdipodops megacephalus dickeyi*, Inyo, CO., Calif. F
 M1380 *Callospermophilus chrysodeirus*, Pet shop F
 M1474 *Felis concolor* calif. (Animal Land) M
 M1475 *Equus caballus* Kellogg's Arab. Horse Farm F yg. (3 yrs)

ML513	<i>Peromyscus boylii boylii</i> , Siskiyou Co., Calif.	F
ML514	<i>Reithrodontomys halicoetes</i> , Sonoma Co., Calif.	M
ML515	<i>Reithrodontomys halicoetes</i> , " " "	M
ML516	<i>Mus musculus</i>	M
ML523	<i>Microtus calif. aestuarinus</i> , Sonoma Co., Calif.	M
ML524	<i>Peromyscus truei gilberti</i> , Siskiyou Co., Calif.	M
ML525	<i>Mastela frenata latirostra</i> , no data	M

Report on stored skeletons which could be disposed of

Camel (M522)

Bison, female (M509)

Reindeer (M1005) (a castrated deer showing poor horn formation)

Roan Antelope (M547)

Tiger (seated specimen)(M982) Mr. Fischer has skull in shop

Chimpanzee (M1135) -- a good specimen but not as good as one exhibited

SMALL SPECIMENS

Boatbill Heron (B1238)

Peacock (B1123) -- badly diseased, probably not salable, but school
might like it

"Blue-faced WhiteHeron" (B11583) -- identity uncertain

Chicken (B1 129)

NOTE: Mr. Fischer recommends that the Giraffe now stored be remounted in an upright position for exhibit. The one now exhibited could then be sold, as it is not a particularly good specimen.

All other specimens should be kept for future exhibition in the new building.

Respectfully submitted,

Hildegard Howard
Nov. 30, 1945.

Pigeons and Doves (3) -- Two modern, the other the Passenger Pigeon. Not enough for regular mt. Might make plaque for Passenger Pigeon ? but it would be skimpy.

Owls (9) -- All but one modern. Skull material bad, or lacking. Extinct form scant but would do for plaque PLAQUE MOUNT

Coot -- One bone (NO EXHIBIT)

Shorebirds (9) -- Scant material, one or two bones only in most instances (NO EXHIBIT)

Gulls (2) -- Very rare (NO EXHIBIT)

Woodpeckers (3) -- Scant material (NO EXHIBIT)

Passerines (25?) -- Small crow could be made into plaque PLAQUE MOUNT
Apparently all modern, except possibly the small crow. Might be able to mount raven

NOTES:

Plaque mount would be main limb bones (usually) without skull or vertebrae, mounted with background outline drawing of presumed ~~xxxxxx~~ shape of bird in life.

If desired an exhibit of small birds could be made up in a manner similar to the present case of small mammals. Mounts of the small birds would be too difficult to be worth while, particularly as all are apparently only modern species.

June 1975

List of birds from Rancho La Brea -- with possibilities of display

Grebes (2) -- Only 1 bone each, apparently of modern species	(NO EXHIBIT)
Hérons and egrets (6) -- Very few bones -- modern species	(NO EXHIBIT)
Extinct Wood Ibis -- Type and one other bone	(NO EXHIBIT)
La Brea Stork	MOUNTED
Ibises (2) -- Very few bones, apparently modern species	(NO EXHIBIT)
Swan -- Two fragments, apparently modern species	(NO EXHIBIT)
Geese (5) -- Four/modern species, fair representation	(NO EXHIBIT)
One extinct /species (Pigmy Goose), rare	PLAQUE MOUNT
Ducks (6) -- Apparently all modern; scant representation	(NO EXHIBIT)
Turkey Vulture -- Modern species; enough for mount	?
Extinct Black Vulture --	MOUNTED
Ancestral Condor (Gymnogyps) -- Enough for another mount	MOUNTED
LA Brea Condor	MOUNTED
Teratornis -- Enough for another mount (all picked out)	<i>Beery</i> MOUNTED
Hawks (10) -- All but (possibly) one modern. Not all sorted; Skulls available for some. Could get enough for mounts, probably -- but would entail a tremendous amount of work in sorting	?
Wetmoregyps -- Leg bones and coracoid, only. A few other elements could be cast from Carpinteria bones.	PLAQ. MT.
Fragile Eagle (Extinct)	MOUNTED
Woodward Eagle "	MOUNTED
Grinnell Eagle "	MOUNTED
Errant Eagle "	MOUNTED
Ancestral Golden Eagle (Extinct?)	Process of mounting <i>ED 7/45</i>
Bald Eagle -- Modern; enough for mount	?
American Neophron (Extinct vulture)	MOUNTED
Extinct Caracara	MOUNTED
Falcons (4) -- Not well represented; no skulls	(NO EXHIBIT)
Calif. Quail -- Limb bones only	(NO EXHIBIT)
Extinct Turkey -- May be enough for mt. of female, but young would be impossible. Male mounted	MOUNTED
Cranes (2) -- No beaks. One might be sorted, but would require considerable work	?

Modern Skeletons

Modern mounted skeletons, available for loan to Paramount Studios

Camel	Value \$500
Bison (female)	" 400
Reindeer	" 500
Kylgau Antelope	" 300
Roan Antelope	" 225
Nubian Goat	" 185
Tiger (in seated position)	" 300
Chimpanzee	" 300

Submitted to
McKinney 3/16/43
Hansen

NEEDED ESPECIALLY

Horned Grebe
 Albatrosses
 Slender-billed Shearwater
 Snowy Egret
 Little Blue Heron
 Louisiana Heron
 Least Bittern
 Glossy Ibis
 Roseate Spoonbill
 American Flamingo
 Whistling Swan
 Female White-fronted Goose
 Female Mallard
 Female Green-wing Teal
 Adult Male Shoveller
 Blue-wing Teal
 Male Ruddy Duck
 White-tailed Kite
 Goshawk
 Adult, sexed Cooper Hawk
 Buteo, all but borealis
 Marsh Hawk
 Pigeon Hawk
 Grouse, especially Canachites,
 Pedioecetes and female
 Dendragapus
 Ptarmigan
 Sage Hen
 Prairie Chicken and Heath Hen
 Scaled Quail
 Female Valley Quail
 Male Gambel Quail
 Mearns Quail
 Turkey (even domestic)
 Rails, except Light-footed
 and Sora
 Godwits
 Wilson's Phalarope
 Dowitcher
 Sandpipers, except Least and
 Red-backed
 Yellow-legs (flavipes)
 Plovers, except Black-bellied
 Surf bird
 Glaucous Gull
 Franklin's Gull
 Guillemot
 Puffins
 Paroquet Auklet
 Carolina Paroquet
 Thick-billed Parrot
 Strix (Barred and Spotted Owls)
 Burrowing Owl
 Short-eared Owl
 Cryptoglaux
 Scotiaptex
 Flammulated Screech Owl
 Hawk Owl
 Snowy Owl

NOT NEEDED

Pigmy Owl
 Elf Owl
 Northern Pileated Woodpecker

NOT NEEDED

Eared Grebe
 Sooty Shearwater
 Black-vented Shearwater
 Fulmar
 Fork-tailed Petrel
 Black Petrel
 Brown Pelican
 Male White-fronted Goose
 Cackling Goose
 Pintail
 Baldpate
 Female Shoveller
 White-winged Scoter
 Surf Scoter
 Red-tail Hawk
 Mountain Quail
~~Ruddy Turnstone~~
 Brandt Cormorant
~~Baldpate~~
 Sanderling
 Northern Phalarope
 Red Phalarope
 Herring Gull ~~California~~
 California Gull
 Glaucous-winged Gull (unless sexed)
 Male Heermann Gull
 Female Western Gull
 Sabine Gull
 Forster's Tern
 Common Tern
 Cassin Auklet
 California Murre
 Rhinoceros Auklet
 Mourning Dove
 Roadrunner
 Raven
 Western Crow
 Mockingbird
 Shrike
 Brewer Blackbird
 California Towhee

Dendrocygna
 Chen
 American and Hooded Mergansers
 Canvas-back
 Lesser Scaup
 Ring-necked Duck
 Golden Eye
 Oldsquaw
 American Scoter

Mexican Birds Needed for Skeletons

Tinamou

Little Blue Heron -- Florida caerulea

Louisiana Heron -- Hydranassa tricolor

Reddish Egret -- Dichromanassa rufescens

Snowy Egret -- Egretta thula

22 Agamia agami (southern)

Yellow-crowned Nt. Heron -- Nyctanassa violacea

Jabiru -- Jabiru mycteria

White Ibis -- Guara alba

Glossy Ibis -- Regadis guarauna and falcinellus

Roseate Spoonbill -- Ajaia ajaja

Jacana -- Jacana jacana

Ortalis wagleri or vetula

Quail

Dendrortyx macroura or barbatus

Callipepla squamata

Lophortyx douglasii

Philortyx fasciatus

Colinus virginianus

Odontophorus guttatus

Dactylortyx thoracicus

Cyrtonyx montezumae and salli

Turkey

Crane

Rails -- Rallus elegans and limicola, and Aramides cajanea

Hawks and Eagles -- all

Accipiter bicolor

Astur atricapillus

Buteo albicaudatus

" albonotatus

" lineatus

" platypterus

" magnirostris

" brachyurus

Leucopternis

Hypomorphnus urubitinga ridgwayi

Buteogallus anthracinus

Busarellus nigricollis

Spizaetus ornatus and tyrannus

Geranoospiza

Asturina

Spizastur

Herpetotheres

Pigeons and Doves

Columba leucocephala; flavirostris; nigrirostris

Zenaida asiatica mearnsi

Scardafella inca

Columbigallina passerina

Leptotila verreauxi and plumbeiceps

Oreopeleia albifacies

Parrots and Macaws

Ara militaris and macao

Aratinga holochlora; astec; canicularis, strenna

Rhynchopsitta pachyrhyncha

Amazona and Forpus

Mexican Birds Needed for Skeletons

Tinamou

Little Blue Heron -- *Florida caerulea*
Louisiana Heron -- *Hydranassa tricolor*
Reddish Egret -- *Dichromanassa rufescens*
Snowy Egret -- *Egretta thula*
 22 *Agamia agami* (southern)
Yellow-crowned Nt. Heron -- *Nyctanassa violacea*
Jabiru -- *Jabiru mycteria*
White Ibis -- *Guara alba*
Glossy Ibis -- *Regadis guarauna* and *fascinelus*
Roseate Spoonbill -- *Ajaia ajaja*
Jacana -- *Jacana jacana*
Ortalis wagleri or *vetula*

Quail

Dendrortyx macroura or *barbatus*
Callipepla squamata
Lophortyx douglasii
Philortyx fasciatus
Colinus virginianus
Odontophorus guttatus
Dactylortyx thoracicus
Cyrtonyx montezumae and *sallei*

Turkey

Crane

Rails -- *Rallus elegans* and *limicola*, and *Aramides cajanea*

Hawks and Eagles -- all

Accipiter bicolor
Astur atricapillus
Buteo albicaudatus
" *albonotatus*
" *lineatus*
" *platypterus*
" *magnirostris*
" *brachyurus*

Leucopternis

Hypomorphnus urubitinga *ridgwayi*

Buteogallus anthracinus

Busarellus nigricollis

Spizaetus ornatus and *tyrannus*

Geranoospiza

Asturina

Spizastur

Herpetotheres

Pigeons and Doves

Columba leucocephala; *flavirostris*; *nigrirostris*

Zenaida asiatica *mearnsi*

Scardafella inca

Columbigallina passerina

Leptotila verreauxi and *plumbeiceps*

Oreopeleia albifacies

Parrots and Macaws

Ara militaris and *macao*

Aratinga holochlora; *astec*; *canicularis*, *strenna*

Rhynchopsitta pachyrhyncha

Amazona and *Forpus*

Bird skeletons needed

Hawks

White-tailed Hawk -- *Buteo albicaudatus*
Zone-tailed Hawk -- " *albonotatus*
Large-billed Hawk -- " *magnirostris*
Ridgway's Black Hawk -- *Urubitinga ridgwayi*
Mexican Black Hawk -- *Buteogallus (Urubitinga) anthracinus*
Black-throated Hawk -- *Busarellus nigricollis*
Mexican Goshawk -- *Asturina*
Other Hawks -- *Leucopternis* and *Geranospiza*

Tree Ducks

Imperial Woodpecker

Hérons, Ibises, etc.

Little Blue Heron -- *Florida caerulea*
Louisiana Heron -- *Hydranassa tricolor*
Reddish Egret -- *Dichromanassa rufescens*
White Ibis -- *Guara alba*
Jabiru Stork -- *Jabiru*
Roseate Spoonbill -- *Ajaia ajaja*

Macaws and Parrots

with letter to R.T. Moore - Dec 9, 1937

Birds needed for skeletons

Albatrosses

Holboell's Grebe
 Horned Grebe
 Pied-billed Grebe
 Slender-billed Shearwater
 White Pelican
 Boobies and Gannets
 Mexican Cormorant
 Anhinga
 Snowy Egret
 Reddish Egret
 Little Blue Heron
 Louisiana Heron
 Least Bittern
 Yellow-crowned Night Heron
 Glossy Ibis
 White Ibis
 Roseate Spoonbill
 American Flamingo
 Whistling Swan
 Canada Goose
 White-cheeked Goose
 American Brant
 Emperor Goose
 Female White-fronted Goose ~~Take~~
 Tule Goose
 Chen
 Tree ducks
~~Anas platyrhynchos~~
 Gadwall
 European Widgeon
 Blue-winged Teal
 Wood Duck
 Ring-necked Duck
~~Canvas back~~
 Golden-eye
 Buffle-head
 Lesser Scaup
 Old Squaw
~~Harlequin Duck~~
 Eiders
 American Scoter
 American and Hooded Mergansers
 Kites
 Goshawk
 Buteo (all except borealis)
 Mexican Black Hawk
 Bald Eagle
 Sea Eagles
~~Spizella socialis~~
 Gyrfalcon
 Aplomado Falcon
 Pigeon Hawk
 Jacana
 Curlew, *long-billed*

Grouse
 Ptarmigan
 Sage Hen
 Prairie Chicken and Heath Hen
 Bob-white
 Scaled Quail
 Male Gambel Quail
 Mearns Quail
 Turkey (even domestic)
 Cranes
 Rails (except Light-footed and Sora)
 Gallinule
 Oyster-catcher
 Plovers (except Black-bellied)
 Surf bird
 Sandpipers (except Least and
 and Red-backed)
 Godwits
 Dowitcher
 Wilson's Phalarope
 Yellow-legs
 Tattler
 Willet
 Knot
 Glaucous Gull
 Franklin's Gull
 Short-billed Gull
 Ivory Gull
 Kittiwake
 Ross' Gull
 Terns (except Forster's and Common)
 Guillemots
 Murrelets
 Paroquet Auklet
 Puffins
 Long-tailed Jaeger
 Skua
 Band-tailed Pigeon
 Red-bellied Pigeon
 Doves (except Mourning)
 Carolina Paroquet
 Thick-billed Parrot
 Cuckoo
 Ani
 Owls (except Barn Owl)
 Poor-wills
 Nighthawks
 Swifts
 Kingfishers
 Woodpeckers (particularly Northern
 Pileated)

Aug, 1933

Aug, 1933

Birds Needed for Mounted Skeletons
(Species which may be collected by Museum collectors)

Fulmar	Swift
Petrel	Kingfisher
Night Heron	Flycatcher
Wood Ibis	Lark
Goose	Swallow
Red head or Blue bill Duck	Titmouse
Ruddy Duck	Nuthatch
Merganser	Wren-tit
Cooper or Sharp-shinned Hawk	Dipper
Marsh Hawk	Wren
Osprey	Thrush
Sparrow Hawk	Gnatcatcher
Hall	Kinglet
Coot	Pipit
Oystercatcher	Waxwing
Plover or Turnstone	Phainopepla
Avocet or Stilt	Shrike
Turn	Oriole
Murre or Murrelet	Vireo
Chinese Dove	Blackbird
Mourning Dove	Tanager
Roadrunner	Greepor
Contsucker	

Mammals, Reptiles and Amphibians need for Mounted Skeletons
(Species which might be procured by Museum collectors)

Flying Squirrel

Wood Rat

Mountain Beaver

Jumping Mouse

Pika

Brush Rabbit

Pigmy Rabbit

Mountain Sheep

Mountain Goat

Domestic Sheep m'd OK need disarticulated

Domestic Goat " " " "

~~Delphin~~

Harbor Seal

Opossum

Guinea Pig

Ferret

Weasel

Mink

Badger

Otter

Wolverine

Raccoon

Red Fox

Coyote

Timber Wolf need disarticulated, too

Alligator Lizard

Horned Toad

Garter Snake

Green Turtle

Tree Toad (Hyla)

Salamander - or Newt

Mammals to be collected for skeletons and skins

Species	Used for
Opossum	1. mounted skeleton
Raccoon	" " , skins
Weasel	" and disarticulated skeletons
Badger	mounted skeleton
Kit Fox	" " , disarticulated skeleton, skins
Coyote	" "
Wolf	" " , disarticulated skeleton
Mt. Lion	" "
Domestic Cat	" "
Harbor Seal	" and disarticulated skeletons
Wood Rat	" " " "
Brush Rabbitt	" " " "
Guinea Pig	mounted skeleton
Domestic Pig	" "
Domestic Sheep	disarticulated skeleton
Domestic Goat	" "
Skunks (both)	" " and skins
Ring-tailed Cats	" " " "

Jan. 4, 1940

Modern Birds Needed to Complete the Mounted Skeletons
(Series representing North American Families)

Albatross	Cuckoo
Anhinga	Poor-will or Nighthawk
Night Heron	Swift
Bittern	Trogon
Goose	Kingfisher
Tree Duck	Flycatcher
Diving Duck (any one)	Lark (Horned)
Ruddy Duck	Swallow
Merganser	Titmouse, Chickadee or Bushtit
Kite	Nuthatch
Cooper or Sharp-shinned Hawk	Creeper
Marsh Hawk	Wren-tit
Osprey	Dipper
Caracara	Wren
Sparrow Hawk or Prairie Falcon	Thrush, Robin, Bluebird
Chachalaca, or Curassow, etc.	Gnatcatcher, Kinglet
Crane	Pipit
Rail	Waxwing
Gallinule	Phainopepla
Jacana	Shrike
Oystercatcher	Starling, Mynah
Plover	Vireo
Avocet or Stilt	Creeper
Murre, Murrelet or Auklet	Oriole, Redwing, Cowbird, Meadowlark
Puffin	Tanager
Chinese Dove	English Sparrow
Mourning Dove	Cardinal, Crossbill, Junco

Jan. 4, 1940

In addition the following birds, now available in disarticulated form (complete) are needed in mounted form. Disarticulated material will no longer be used for exhibition so these skeletons can be used if so desired. Otherwise, these species should be obtained elsewhere.

Man-o'-war Bird

Wood Ibis

Flamingo

White Ibis

Roadrunner

NEEDED ESPECIALLY

NOT NEEDED

Horned Grebe
 Albatrosses
 Slender-billed Shearwater
 Snowy Egret
 Little Blue Heron
 Louisiana Heron
 Least Bittern
 Glossy Ibis
 Roseate Spoonbill
 American Flamingo
 Whistling Swan
 Female White-fronted Goose
 Dendrocygna
 Chen
 American and Hooded Mergansers
 Canvas Back
 Lesser Scaup
 Ring-necked Duck
 Golden Eye
 Old Squaw
 American Scoter
 Female Mallard
 Female Green-wing Teal
 Adult Male Shoveller
 Blue-wing Teal
 Male Ruddy Duck
 White-tailed Kite
 Goshawk
 Adult, sexed Cooper Hawk
 Buteo, all but borealis
~~Marsh Hawk~~
 Pigeon Hawk
 all Grouse, especially Canachites,
 Pedicetes and female
 Dendragapus
 all Ptarmigan
 Sage Hen
 Prairie Chicken and Heath Hen
 Scaled quail
~~Female Valley quail~~
 Male Gambel Quail
 Mearns quail
 Turkey (even domestic)
 Rails, except Light-footed
 and Sora
 Godwits
 Wilson's Phalarope
 Dowitcher
 Sandpipers, except Least and
 Red-backed
 Yellow-legs (flavipes)
 1 Plovers, except Black-bellied
 2 Surf bird
 Glaucous Gull
 Franklin's Gull
 Guillemots
 Puffins
 Paroquet Auklet
 Carolina Paroquet
 Thick-billed Parrot
 Strix (Barred and Spotted Owls)
 Burrowing Owl
 Cryptoglaux
 Scotiaptex
 Flammulated Screech Owl
 Hawk Owl
 Snowy Owl
 Pigmy Owl
 Elf Owl
 Northern Pileated Woodpecker

Eared Grebe
 Sooty Shearwater
 Black-vented Shearwater
 Fulmar
 Fork-tailed Petrel
 Black Petrel
 Brown Pelican
 Brandt Cormorant
~~Male White-fronted Goose~~
 Cackling Goose
 Pintail
 Baldpate
~~Female Shoveller~~
 White-winged Scoter
 Surf Scoter
 Red-tail Hawk
 Mountain quail + Valley quail
 Sanderling
 Northern Phalarope
 Red Phalarope
 Herring Gull
 California Gull
 Glaucous-winged Gull (unless sexed)
 Male Heermann Gull
 Female Western Gull
 Sabine Gull
 Forster's Tern
 Common Tern
 Cassin Auklet
 California Murre
 Rhinoceros Auklet
 Mourning Dove
 Roadrunner
 Raven
 Western Crow
 Mockingbird
 Shrike
 Brewer Blackbird
 California Towhee

Sent with letter of
 December 8, 1934

To Talbot

Short-billed gull, Herring Gull
 Ivory Gull
 Kittiwake, Ross's Gull

Terns, except Forked & Common
 Murrelets

Bonaparte

Cranes

Gallinules
 water
 canals

Sticks

Tattlers

Willet

Kurt

Hawks ^{etc.} needed

✓ *Accipiter bicolor* (Mexico)

~~*Buteo atricapillus*~~

✓ *Buteo albicaudatus* (have tarsus)

Joshawk

White-tailed Hawk

" *albonotatus*

Zone-tailed

✓ " *lineatus* (have two ^{7/8?} but need more)

Red-shouldered

✓ " *platypterus* (have tarsus)

Broadwinged

" *magnirostris* (Mexico)

✓ " *brachyurus* (E.U.S.)

Short-tailed

Leucopternis ~~(have tarsus)~~ (Mexico)

Hypomorphnus urubitinga (Mexico)

Ridgway's Black Hawk

Buteo jallus anthracinus (have bodies) Mex. Black Hawk

Buteo jallus nigricephalus (have incomp.) (Mexico)

Black Throated Hawk

✓ *Spizaetus ornatus* (Mexico)

Styrax - So. Mex.

✓ *Haliaeetus leucocephalus*

Geranoospiza nigra (Mexico)

Asturina nitida - Mexican Joshawk

✓ *Harpia harpyja* - Harpy Eagle

✓ *Spizastur melanoleucus*

✓ *Herpetostyles cassinianus* Langtong Falcon

Tree ducks

Imperial Woodpecker

any owl found in U.S.

Antwren's

M1441 ^{Run 4} Wallaby
M636 MFX
M1548 ^{Run 4} M1382 ^{Run 4}
M1548 ^{Run 4} M1382 ^{Run 4}

Disarticulated Skeletons Mounted (contd.)

No Sale M592	1 X Elephant Seal	\$3500.00	exhibit
M1490 (P59) MFX	1 X Whale	350.00	exhibit
M 649 MFX	1 X Manatee	200.00	exhibit
No Sale M1134	1 X River Dolphin	300.00	dolphin exhibit
M1206 MFX pithon S85	2 X common Dolphin (\$150 each) (1. 2 a Porpoise)	650.00	2 exhibit
(2 MFX S85) 8 S85 (S80)	2 X Steller Sea Lion (\$325 each)	200.00	exhibit
M1175 MFX	1 X California Black Bear	200.00	exhibit
M1239 MFX	1 X Malayan Bear	350.00	exhibit
M570 MFX	1 X African Lion	200.00	exhibit
M557 MFX	1 X " Leopard	150.00	exhibit
M563 S85	1 X Wolf	100.00	exhibit
M1442 MFX	1 X Coyote	35.00	exhibit
M1442 MFX	1 X Gray Fox	50.00	2 exhibit, meplites
No Sale M594 MFX (S85) (S80)	2 X Skunks (\$25 each) (1. Spilogale 2. meplites)	65.00	exhibit
M595 " M637	1 X Badger	25.00	exhibit
M445 MFX	1 X Ring-tail Cat	40.00	exhibit
M508 MFX	1 X Raccoon	25.00	exhibit
M627 MFX	1 X Domestic Cat	100.00	exhibit
M861 Run 4	1 X Tasmanian Devil	120.00	exhibit
M633 MFX	1 X Phalanger (\$60 each) (only 1 now)	200.00	1 exhibit
M650 MFX	1 X Kangaroo	100.00	exhibit
M586 1 S85 (Run 4)	1 X Bandicoot	100.00	exhibit
M586 MFX (Run 4)	1 X African Porcupine	50.00	exhibit
M1197 MFX	1 X American "	35.00	exhibit
M722 S85	1 X Beaver	100.00	exhibit
M721 MFX	1 X Viscacha	30.00	exhibit
M717 MFX	1 X Jack Rabbit	25.00	exhibit
M800 MFX	1 X Cotton Tail	50.00	exhibit
M720 S85	1 X Wild Cat	45.00	1 exhibit
M640 MFX	3 X Pats (\$15 each) (males)	2500.00	
M577 Run 4	2 X Dogs	240.00	
No Sale 2 S85	1 Hippopotamus skull	8.00	exhibit (1)
No Sale 1 S85	1 Rhinoceros "	14.00	exhibit
	1 Walrus "	12.00	exhibit
	1 Giraffe "	10.00	exhibit
M709 L533 MFX	1 X Meadow Mouse	75.00	exhibit
M710 Run 4	1 X Desert Rat	25.00	exhibit
M704 L533 MFX	1 X Eastern Chipmunk	8.00	exhibit (1)
P20 M729 MFX	1 X Norway Rat	25.00	exhibit
M721 MFX	1 X Lesser Chinchilla	24.00	exhibit (1)
M1330 MFX	1 X Muskrat	12.00	exhibit
M718 MFX	1 X House Mouse	10.00	exhibit
M726, 727 (M8) Run 4	1 X Prairie Dog .. P20	10.00	exhibit
M735 MFX	2 X Packed Gopher (\$12 each)	10.00	exhibit
M643-645 2 Run 4	2 X Kangaroo Rat	10.00	exhibit
M705-707 M635 MFX	1 X California Mole	10.00	exhibit
M730 MFX	1 X Shrew	10.00	exhibit
M539 MFX	1 X Eastern Pocket Gopher		
Bat 3 M731 MFX	1 X Jamaica Bat P20		
M1220 Run 4	1 X Weeper Monkey		
M616 Run 4	1 X Deboa		
M708 (L533) Run 4	1 X White-faced Mouse		
M713 Run 4	1 X Whajon		
M766 Run 4	1 X Hamo		

Totals

25,276.00 (126 skeletons)
240.00 (4 skulls)

M1430 Rm 44 woolly monkey X
 M856 MFR orangutan X
 poor

Disarticulated Skeletons Mounted

M1148 MFR	1 X Gibbon			
M898 MFR	1 X Gorilla	\$1000.00	exhibit	
A897, 1135 (855) (3) MFR	2 X Chimpanzee	\$500.00 each	1000.00	exhibit
M799 SB5	1 X Rhesus Monkey	65.00		
M1145 MFR	1 X Lemur	40.00		
M1228 MFR	1 X Potto Lori	75.00	exhibit	
M1248 MFR	1 X White-eared Marmoset	30.00		
M1218 MFR	1 X Spider Monkey	50.00	exhibit	
M1233 MFR	1 X Sagie Monkey	40.00		
M715 MFR	1 X young Tapir	100.00	exhibit	
M634 MFR	1 X large Fruit Bat	60.00	exhibit	
M711 MFR	1 X Tree Squirrel	20.00	exhibit	
M535 MFR	1 X Ground Squirrel	15.00	exhibit	
M716 MFR	2 X Mole	8.00	exhibit	
P20 M553 MFR	1 X European Hedgehog	60.00	exhibit	
M965 MFR	1 X Mouse Deer	150.00	exhibit	
M541 MFR	1 X Nine-banded Armadillo	50.00	exhibit	
M719 MFR	1 X Tree Sloth	75.00	exhibit	
M1428 Rm 44	1 X Fitch	35.00		
M1547 Rm 44	1 X Opossum	45.00		
M547 SB5	1 X Roan Antelope	200.00		
5037 62539 99wms	2 X Nylgau (young and old)	350.00		
M694 MFR	1 X Indian Elephant	1400.00	exhibit	
M435 MFR	1 X Bison, male	500.00	exhibit	
M509 SB5	1 X " female	400.00		
M1464 MFR	1 X Mule	350.00	exhibit	
M1463 MFR	1 X Fire Horse	750.00	exhibit	
M1485 MFR	1 X Race "	750.00	exhibit	
M700 MFR	1 X Arabian Horse	350.00	exhibit	
M531 MFR	1 X Elk, male	250.00	exhibit	
M533-SB5	1 X " female	200.00		
M922 SB5	1 X Mexican Mule Deer, female	175.00		
M908 MFR	1 X Mule Deer, female	200.00	exhibit	
MFR-M1102) 1 SB5 M1005	2 X Reindeer, male	500.00	exhibit	
9wms M1002 MFR	1 X Jersey Cow	350.00	exhibit	
1 SB5 522 MFR	2 X Camel	\$600.00 each	1200.00	exhibit
M518 MFR	1 X Giraffe, male	700.00		
M517 MFR	1 X " female	500.00	exhibit	
M1256 MFR	1 X Sheep (Domestic)	140.00	exhibit	
M1257 MFR	1 X Goat	130.00	exhibit	
M1499 MFR	1 X Boar	200.00	exhibit	
M1139 MFR	1 X Hippopotamus	500.00	exhibit	
M6029 8038 MFR	2 X Antelope	\$150 each	300.00	exhibit
M1138 MFR	1 X Alpaca	300.00	exhibit	
M921 SB5	1 X Moose	500.00		
M982 SB5	2 X Asiatic Tiger	600.00		
M560wms M1103 SB5	1 X Nubian Goat	135.00		
M548 Tuck	1 X Zebra	300.00	exhibit	
M641 SB5	1 X Polar Bear			
Bati M714 Rm 44	1 X Brown Bat			
Bat 2 M552 wms	1 X " "			
M562 Rm 44	1 X mt lion			
	X, Recency M615 Rm 44			

also
 a pair
 255-1
 2
 1385

a stock (exhibit)

Mounted Bird Skeletons

1	Whistling Swan	\$100.00	exhibit
1	Pelican	60.00	
1	European Swan	80.00	
1	Loon	35.00	exhibit
2	Gulls (\$25 each)	50.00	
1	Pintail Duck	20.00	
1	Coot	20.00	
1	Wood Ibis	65.00	
1	Flamingo	85.00	exhibit
1	Egret	35.00	
1	Avocet	28.00	
1	Boat Bill Heron	35.00	exhibit
1	Turkey	55.00	
2	Chickens	50.00	
1	Prairie Chicken	30.00	
1	Guinea Fowl	28.00	
1	Roadrunner	20.00	exhibit
2	Quail (\$15 each)	30.00	
2	Cormorant (\$50 each)	100.00	exhibit
1	large Penguin from South America	100.00	exhibit
1	small "	100.00	exhibit
2	Raven (\$14 each)	28.00	

Bird Skeletons (Ligamentary)

1	Barn Owl	25.00	exhibit
1	Golden Eagle	45.00	exhibit
1	Vulture	30.00	exhibit
1	Hawk	35.00	exhibit
1	Macaw	50.00	exhibit
1	Hornbill	85.00	exhibit
1	Flicker	14.00	exhibit
2	Pigeon (\$20 each)	40.00	
1	Humming Bird	30.00	exhibit
1	Blue Jay	14.00	
1	Mocking Bird	14.00	
1	Black Bird	14.00	
1	Song Sparrow	14.00	
2	Anthony Towhee (\$12 each)	24.00	
1	Gamble Sparrow	12.00	
1	House Finch	12.00	
1	Tropical Bird	40.00	
1	Toucan	30.00	
1	Peacock	35.00	
2	Shearwater (\$28 each)	56.00	
1	Jaeger	28.00	
1	Parrot	24.00	
1	Bittern	35.00	
1	Crested White Duck	25.00	
1	Fulmar	25.00	

Bird Skeletons (Ligamentary) (contd.)

SB5	1	European Stork	\$40.00	
	1	Pheasant	30.00	
	1	Curlew	25.00	
SB5	1	Ring-neck Pheasant	30.00	exhibit
	1	Wood Ibis	65.00	
	1	Roseate Spoonbill	30.00	
SB5	1	Brown Leghorn Bantam	28.00	
SB5	1	White Heron	30.00	
	1	Black Petrel	12.00	
SB5	1	Curlew	25.00	
	1	Cassowary	175.00	exhibit
	1	South American Rhea	125.00	exhibit
	1	Ostrich	125.00	exhibit
	1	Emu	200.00	exhibit
	1	Meadow Lark	10.00	exhibit
SB5	1	Gebe		
Total			2840.00	(70 skeletons)

Amphibian and Reptiles

1	Bull Frog	\$12.00
1	Alligator	300.00
1	Crocodile	300.00
1	Galapagos Turtle	400.00
1	Giant Marine Iguana	150.00
SB5 585	1 12-ft. Python	125.00
	1 18-ft. "	200.00
	1 Snapping Turtle	18.00
	1 Snake Head Turtle	35.00
	1 Desert Tortoise	30.00
	1 Common Box Turtle	12.00
	1 Giant Land Iguana	150.00
	1 Gopher Snake	45.00
	1 Gila Monster	16.00
	1 Indigo Snake	50.00
	1 Horned Rattlesnake	10.00
	1 Mexican "	40.00

Total 1893.00 (17 skeletons)

Fish Skeletons

	1 Halibut	\$35.00
	1 Rock Fish	30.00
	1 White Perch	30.00
	1 Baracuda	25.00
	1 Sheepshead	40.00
	1 Trigger Fish	28.00
	1 Mackerel	20.00
No sale SB's	1 Opah	150.00
	1 Sea Bass	18.00
	Skull of Hammerhead Shark	15.00
	1 Sting Ray	50.00
No sale SB's	1 Black Sea Bass	200.00
No sale SB's	1 Luvarus Imperialus	500.00
	1 Elephant Seal	500.00

Total 1541.00 (14 skeletons)

Grand Total
mounted skeletons
227

Value
\$ 31,550

Saguaris aves

1031

1056

Summit
Hadley

checked
on exhibit! (20) These?

Zelotes hadleyi J. F. G.
comp except head
small & bones brown

~~1029~~

~~1032~~

complete

Mythia ercearia

Found by Mrs. F. H. Hansen

Puccaria sp. W30

L. B. Parsons

Diplomyces sp. W30

Loan

Jennie R.

Waltus

1032

1062

1 on exhibit
1 checked
complete

~~1030~~

~~1045~~

comp. time

A443

Miss J M Telford

Trifolite shown joint
remains 1 pin

1028 should be 1018?

1 display

1021 & 1022

Other half
collector

already checked in
cat. from spec.

Xyris galea (several
waterbashed)

Cells of Lampyris

from Fulong

as of A4709 & A1126

1323

L 1724.

Fish & Seaweed
some in Belizian
Sepulveda in tunnel

big complete slab

Crabs A 1680

Shark tooth lay
P + Vident

several Shark teeth A 677
Calimerya Peak Horn Hamlin

A 1772 Jacques
Mulholland Dime
10 slabs (mostly full)

12up.
Look up

$$\frac{1036}{1021} = \frac{1028}{1021}$$

$$\frac{1030}{1022} = \frac{1028}{1022}$$

and besides 1028
is the wrong loc. for
Lompia - should be
1018 or 1043?

$$\frac{1031}{1056} = \text{check } 1 \text{ on extent small}$$

2 of these here

$$\frac{1031}{1057} = \text{here!}$$

in Hadley's room

1032

1062

1 trip
1 exhibit

1031

1060

- 1 comp fish
1 scale

1031

1058

1031

1059

- 1 trip, other
- type Saida Stochi
(not found) 580 mm

1031

1061

- 1 scale
1 fish (new)

1030 or 1034

1024 + 1027 + 1028 ?

cross out

5,846 in
invest. cat.
fish

Check # ^{10.48?} 1294

supposed to be a plant
in the catalogue
look up in David?

Check 1297 in
David is it complete
Enleptochampura
Not mentioned

look up 1

1048

of 2 quills

1293

check & David

find # 129 from

El Modena (1033?)

mentioned by David

Sygnatus avus

1033

1033

1033

1033

1033

1034

1033

1039

Wdr

El Modelo

✓1030
1112

Sierra Vista (Tieje)

✓1030
1125

" "

✓1030
1147

" "

✓1028
1239

Mulholland Dr - Jacobs

✓1048
1240

~~Acacia~~
Sulphur Mt. (Thompson)
(A4490)

✓1048
1292

"
Acacia

A4722 McKnight

✓1048
1296

fish sail

" A4722

10.40
1.300

Truckee Quarry (Complete Fish
v. Blanche)

misery

$$\begin{array}{r} 1034 \\ \hline 1026 \end{array} \quad \begin{array}{r} 1034 \\ \hline 1028 \end{array} \quad \left(\text{There is a } \begin{array}{r} 1030 \\ \hline 1028 \end{array} \right)!$$
$$\begin{array}{r} 7 \overline{) 1030} \\ \underline{1024} \end{array}$$

$$\begin{array}{r} \cancel{1029} \\ \hline \cancel{1037} \end{array} \quad \text{Sierra Vista (wy Ide)}$$

$$\begin{array}{r} \cancel{1030} \\ \hline \cancel{1045} \end{array} \quad \text{Sierra Vista (Tieje)}$$

$$\begin{array}{r} 1038 \\ \hline 1059 \end{array} \quad \text{Type Saida Stoku}$$

$$\begin{array}{r} \sqrt{1030} \\ \hline 1064 \end{array} \quad \text{Sierra Vista (Tieje)}$$

$$\begin{array}{r} \sqrt{1030} \\ \hline 1081 \end{array} \quad \text{" " " "}$$

$$\begin{array}{r} \sqrt{1030} \\ \hline 1090 \end{array} \quad \text{" " " "}$$

$$\begin{array}{r} \sqrt{1030} \\ \hline 1099 \end{array} \quad \text{" " " "}$$

Green River

~~1298~~

~~1323~~

~~1324~~

1186

A 3241

A 1757

A 1405

A 5086

A 1498

W70

1051

old T. page A 4603 2/10

1307

M. & Mrs. S. Jackson

~~1053~~

~~but must be given new access~~

~~1310~~

~~On A 1920, Van Dyke Blvd.~~

✓ 1038

N. Tunnel on Sepulveda Ave.

1312

Nearly complete Kauch
A 4052

1053

L 2004 complete
from San Pedro)

1321

S 1284 - Shark tooth

S 1869-70 "fossils"
73

S 3006 - Fossil Root casts

S 2481-2507 Shells

Willet Remarks on some resident birds
1946 of the Sta Barbara Islands.

Bull, So. Calif. Acad Sci. 44, Pt. 2
pp. 51-54.

change 1294

loc. 1029 } in David
1038 } paper GSA #43

1297 *Syngnathus acus*
Newer Park near El Modeno

San Luis Obispo 1893 H.S.

Find type of *Sarda storkii*

1035
1059

(at left. H.S.)

"Spec. "4723" from "guano 338"

✓ = illus

Clupea hadleyi

OK

✓ Type XXXV

2nd spec CVII (same as type in what is presumed)

Quassita fusca

OK

✓ Type XVII

9 others CXII - CXX inclusive

from $1\frac{3}{4}$ - $3\frac{1}{2}$ long

Lygisma tenuis

?

✓ Type XVI

✓ another CVII

Scombrex acutellus

?

Type XLIII (ant. half only)

✓ another XLIV ($4\frac{1}{2}$ " long)

Turrita octavia

?

✓ Type VII (2" long)

another CXXI (head, part of torso)

Oil XII (torso)

" X (2 caudal fins)

?

Eclipsis veteris

✓ Type IX (2")

1033

Lutjanus kagar

OK

2 = type XIX (pl XV fig 1)

Sebastomus vertebralis

?

Type III (3")

another XLI (broken head)

Rhomarchus euseius

OK

Type XLIX (4")

head crushed in both

another CXXIV ($2\frac{1}{2}$ "

Merrimina ecteus

OK?

Type XIII ($2\frac{1}{2}$ "

✓ another XIV ($4\frac{1}{2}$ "

5 more

① " CVII

② XXXVIII a broad tent & dorsal fin

③ CIX similar

④ CX euseius paper

⑤ CXI crushed

CXVIII Quacinta g. $\frac{1033}{1941}$
 CXVI } 1337
 CXII } 1338
 CXVII } 1330
 CXIII } 1348
 CXIV - 1342

CVIII Merriamina ectena
 CXI - 1333
 CX

XII Trinita octavia

CXXX Scomberus acutellus 1345

CXXXI Elumma eludanae 1343

Fossil Fish Colls

Our fish mentioned by David

1059 — *Sarda stuhlmanni* David (RTL) Loc. 1035. 580 mm
Mallakand Drive.

4723 — (probably = A 4723) Mulholland Drive 13000 ft.
(frag. left slab) — *Scorpaena ensiger*

1189-1190; 1192; 1195-96; 1203-1204, 1206, 1283 Xyne grex ✓
near junction Van Noy Blvd. & Ventura Blvd. 5-6 mm

1187-1188, 1191, 1194, 1197, 1199-1203, 1205 - 50-68 mm
Lampanyctus bolini Davis Van Misp. & Kent. Blks.
 E. near Pacific

10/15 (allium) } x me grey p. 93

1022 (Lompa) slab with a Xylem in it

There are certain factors to be taken into consideration in interpreting the results of the separation of this material. The block of asphaltum was enclosed in burlap in the field before boxing, and later the matrix fragments removed from the block were put in carboard or wooden small boxes. Frequently chips of fresh wood, burlap fibers and pieces of pasteboard were found mixed in with the fragments of asphaltum. A piece of wood sharpened at one end caused a moment's excitement until it was found to be a burnt match stick thrown down on the pile of asphaltum. A number of flying seeds of a

As a final check, therefore, after completing the washing of the smaller asphalt fragments, a number of large chunks have been washed in clean pans with fresh liquids. These chunks were carefully brushed off on all sides to eliminate extraneous material, and thoroughly examined externally before the washing was begun. The specimens obtained from them will be kept separate and labelled Pit 81X.

modern grass which had never been saturated with tar were found in the course of the washings. These were separated out ~~from the~~ for it is believed that they either blew into the pit at the time of excavation, or through the Museum windows while the material was being worked on.

Mossy
1038

find ~~1313~~ (1 more)

~~1255~~ (1 more)

1312 - near complete fish

copied

1028 ~~#1247~~ body & head

1239 (part of body?) copied

1027

~~1015, 16, 17, 18, 19~~ slabs as the new fish

1058

~~1303~~ (1 more)

~~1304~~ (1 more)

~~1305~~ (2)

~~1306~~ (1 more)

1032

~~1260, 61, 62, 63 (64, 65)~~

~~1062~~ (2 more?)

~~1040~~

~~1210~~ (1 more)

~~1229~~ (1 more)

~~1045~~

~~1277~~

~~1039~~
~~1043~~

1030

(104)

1069

(108)

(109)

(105)

(1099)

(1142)

1066

(1725)

Copied

(1147)

~~1170, 1180, 1184-85~~

~~1271~~ - ~~1271~~

copied 1029

1037

~~1044~~

~~1047~~

~~1287~~

1048

(1290)

(1292)

(1296)

crab ~~1290~~ Sect. 2 legs

Tail

~~1046~~
~~1270~~
Take out of
sweet cat 51846

Plants in Vertebrate cat.

$\frac{1038}{1257}$

Sepulveda Blvd. A4052 (didn't locate specimen)

$\frac{1038}{1315}$ and 1317-1320

$\frac{1040}{1231-37}$ inc.

$\frac{1030}{1272-74}$ found
~~1272-73 found~~

$\frac{1046}{1279-1282}$

Change loc. 1052 & 1053 on p. 27. They were never entered in front & these #'s were consequently used for binders. I recorded so in front of book.

What is P 26 (San Fernando)?

Get Lore to check ident. on loc. 1039 material

Spec $\frac{1030}{1193A}$

no such combination in cat.

Loc 103002/1034 on #1026-1034

There are 2 specimens #1026 - 1 has scales only & is evidently from 1030

Other is complete fish probably 1034

2 - $\frac{1031}{1060}$ 1 is a comp. fish the other, scale

2 $\frac{1031}{1058}$?

2 $\frac{1031}{1059}$

(1 is type of Sarda sticta the other tiny thing)

2 $\frac{1031}{1056}$?

2 $\frac{1031}{1061}$

(1 an inc fish, the other, scale)

~~1030~~
~~1061~~

Aug. 1896 - outbreak in summer of Philly against Spain

1898 - Battle of Manila

Feb 1899 - assumed offensive against U.S.

Mar. 23, 1901 he was captured (Aguinaldo)

Spec. $\frac{1048}{1293}$ or 1294 *Zaphlegilus venturaensis*
cat says 1293 spec ~~1294~~ check David 1293
OK

In Hadley's Room

23 fishes from 1031A - Shob Sta West Alhambra

20 " " 1033 El Modena

#'s 1330, 31, 32, 33, 34, 35, 36, 37, 38, 39 ~~(40)~~ 41, 42, ^{43, 44} 45, 48.

and 4 unnumbered
Lygloma tenax ?
ripe fish
2 unknowns

There are
~~1344 and~~
1346-47 ?

45 fishes + 1 coprolite from Emery Park (Sierra Vista)
Hadley coll. including 1 #4 spec. 1328
Elumma elumodena

Types *Clupea hadleyi* # 1327 (1031A)
Qualita pinguetia # 1322 (1033)
Merriamius estensis # 1325 (1033)
Lutjanus kayeri # 1329 (1033)
Rhomanchus enigma 1326 (1033)

also, Richer Mount
of mts fish 12
including # 1054 (?)
1056, 1058 (1031)
+ 1344 (1033)
(*Syngnathus*
corus)

XCII
XCIII
XCIV
XCV
XCVI
✓XCVII
XCIX

120
92
28

C

CI

CII

CIII

CIV

CV

CVI

CVII - 1333 Merriamiana ecteus

CVIII

CIX

CX

CXI

Quasita
Quasulae Typ XVII

✓CXII = 1338 X

✓CXIII = 1334 X

CXIV = 1342 X

✓CXV = 1348 ✓

✓CXVI = 1337 X

✓CXVII = 1330 X

✓CXVIII = 1341 X

✓CXIX

✓CXX = 1335 X

1031 should be
1054
1057?
Synnathrusaurus
piper fish
1057 missing

Discarding 12/13/39

Badly eroded modern horse
cranium from Palomar mt
colld by Max Bower, 1936
very fragmentary

2 greasy turkey tibiae (yg,

Cottontail skull from
ElSegundo Sand Dunes

Colld by Dr Dwight Peice 5/25/38

3 eroded Jack Rabbit metatarsals
from Fish Canyon (Peyton?)

Portion of cranium of Sheep or
goat skull buried &
washed out into ravine
colld by Woodward at
Mabu Ensenal - 4/3/38

Fragments of pig jaws

Reindeer Out

Moose Keep

Seated Tiger Out

Big giraffe Keep

M425 small mylgau Keep?

M502 ^{mylgau} antelope Keep

M547 Roan antelope? Out

of Bismarck Keep

M1103 Mabrian goat Out

small birds & mammals

2 pythons Keep small
on exhibit

2 elephant tusks out

3 fresh skeletons

8 Skulls don't want

5 Sheep 2 caribou.

2 fallow deer

Sea Lion exhibit
(either to stock)

S.B. 5.

Eleph Seal Keels

Hylo Skull Dust

Bison 7 Dust

Mule Deer 7 Out

Kids, Pronghorn 7 Dust

upstairs
Walrus small skin

26th (whale, stop 1805)

LS 53

humans

~~Dust~~

Small Chimp (S.S. Edwards)

horse print
from ancient at

6950 Stock

Camel

mini harp Kangaroo

chimp

asatir Tiger

Pda Bear

Sea Lion 550 ~~very good keep~~
 SB Ruiter Dolphin 1136 Keep this
 Porpoise 1194 Keep
 Elephant Seal 592 Keep good
 Chimpanzee 855 ~~by Sell~~
 " 1135 ~~good for an as good as~~
 Kangaroo 586 (quite a wallaby)
 Pronghorn 802 Keep
 Rhino 799 Keep
 Gorilla 722 Keep
 Spotted Shark 637 ~~keep~~ (keep to sell)
 Panda 720 Keep
 Lion Cub 563 Keep

Ward's Red Sy. good

Boat bill — Sell
give to school

1 Peacock — ~~Sell~~ ^{give to school}

6 Blue-faced Wh. Heron — Sell

4 129 Cuckoo — Sell

2 West'm Gull needs,
clean

Cytheron 27 Bygone -

" 46 like one best

Lowen 16

Sea Bass 15'

Opah 17

Keep

SBS'

1942

Camel 522 Sell This ✓
Moose 921 Keep This
Bison ♀ 509 - Sell ✓ not much
excess

Mex Mule Deer 922 ♀ Keep

Nylgan 502 Keep This for ^{april} ant

Nylgan 625 yg good for meat.

Elk 531 one in my list

Elk 533 Tech has this

Reindeer ^{castrated} 1005 ^{for comparison}

Sell this ✓

Roman antelope 547

Sell ✓

Nubian goat 1103

Darnest better
but this is good spec

Quatpe

518

- ant this sell other

Tiger

560

Pretty good?

Tiger sent 982

Sell this ✓
Shall in shot

Polar Bear

641

yg + not too good
but keep this

St Bernard

1174

Keep this

DEPARTMENT CATALOG

RANCHO LA BREA FOSSILS

MUSEUM OF HISTORY, SCIENCE AND ART
LOS ANGELES, CALIFORNIA

LOS ANGELES, CALIFORNIA

DATE OF ENTRY

ENTERED BY

?

Says Python 3

where shall exib

Elephant Out

Geo. Sloth plaque

Handy travelling man car

min. models Not to Be used
as an Education

Trilobite exhibit

Fossil Whale shall Exhibit

816

3 808 No data

5 809 " "

5 810 " "

A 746[?] M 813 to skeleton 772[?]

~~A 965~~ 946 McClellan
exped 1919

exhib' of pale T. Lowan

Blue Bars to Stock
C. A. T. C.

S. B. S